

ABSTRACT

Nature evolves biological molecules such as proteins through iterated rounds of diversification, selection, and amplification. The power of Nature and the flexibility of organic synthesis are combined in nucleic acid-templated synthesis. The present invention provides a variety of template architectures for performing nucleic acid-templated synthesis, methods for increasing the selectivity of nucleic acid-templated reactions, methods for performing stereoselective nucleic acid-templated reactions, methods of selecting for reaction products resulting from nucleic acid-templated synthesis, and methods of identifying new chemical reactions based on nucleic acid-templated synthesis.

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